

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Cancelled).
2. (Previously Presented) The tape of Claim 24 wherein said inner conductive layer comprises substantially equal parts of metallic powder and PTFE.
3. (Previously Presented.) The tape of Claim 24 wherein said metallic powder is selected from the group consisting of copper, iron, nickel, aluminum, silver, gold and carbon, alone or in combination.
4. (Previously Presented) The tape of Claim 24 wherein it is constructed so that it can be spirally wound and cured on the insulated electrical wire.
5. (Previously Presented) A method of manufacturing the tape of Claim 24 wherein said outer insulation layer is coated with said inner conductive layer, and said inner conductive layer is cured thereon.
6. (Original.) The method of Claim 5 wherein said inner conductive layer is heat-cured on said outer insulation layer.
7. (Previously Presented) The tape of Claim 24 wherein an outer conductive layer is disposed on the outer surface of said insulation layer and is formed of metallic powder dispersed in a PTFE dispersion or ink solution.
8. (Cancelled.)
9. (Previously Presented) The tape of Claim 24 wherein an adhesive with slipsheet layer is disposed on the inner surface of said inner insulation layer.

10. (Previously Presented) The tape of Claim 24 wherein said conductive layer is formed of metallic powder disposed in a PTFE dispersion or ink solution. '

11. (Cancelled.)

12. (Previously Presented) The shielded electrical wire of Claim 25 wherein said conductive layer comprises substantially equal parts of metallic powder and PTFE.

13. (Original.) The shielded electrical wire of Claim 12 wherein said conductive layer is formed by dispersing said metallic powder in a PTFE solution, and heating and curing said metallic powder-PTFE mixture on said insulation layer of said tape to form said conductive layer thereon.

14. (Previously Presented) The shielded electrical wire construction of Claim 25 wherein said metallic powder is selected from the group consisting of copper, iron, nickel, aluminum, silver, gold and carbon, alone or in combination.

15. (Previously Presented) The shielded electrical wire of Claim 25 wherein said tape comprises a second conductive layer surrounding said second insulation layer.

16. (Cancelled.)

17. (Cancelled.)

18. (Cancelled.)

19. (Cancelled.)

20. (Cancelled.)

21. (Cancelled.)

22. (Cancelled.)

23. (Cancelled.)

24. (Currently Amended) A tape for shielding insulated electrical wire to provide a positive attenuation of and protection from electromagnetic and radio frequency interference, said tape comprising:

a conductive layer formed of metallic powder dispersed in PTFE;

an outer insulation layer formed of PTFE disposed on and bonded to the outer surface of said conductive layer; and

an inner insulation layer formed of PTFE disposed on and bonded to the inner surface of said conductive layer;

said inner and outer insulation layers being offset laterally with respect to each other to expose inner and outer lateral end portions of said conductive layer, thereby enabling the tape to be spirally wound on and bonded to the insulated wire with abutting insulation layers covering said lateral end portions of said conductive layer.

25. (Previously Presented) Shielded electrical wire, comprising:

insulated wire;

a first insulation layer formed of PTFE surrounding said insulated wire;

a conductive layer surrounding said first insulation layer to provide a positive attenuation of and protection from electromagnetic and radio frequency interference, said conductive layer comprising metallic powder dispersed in PTFE; and

a second insulation layer formed of PTFE surrounding said conductive layer;

said conductive layer and said insulation layers being formed by a tape having said layers bonded together that is spirally wound around and cured on said insulated wire;

said first and second insulation layers being offset laterally with respect to each other on opposite surfaces of said conductive layer to expose inner and outer lateral end portions thereof which are covered by abutting spirally wound insulation layers.

26. (New) A tape for shielding insulated electrical wire to provide a positive attenuation of and protection from electromagnetic and radio frequency interference, said tape comprising:
an outer insulation layer formed of PTFE; and
an inner conductive layer formed of metallic powder dispersed in PTFE;
said tape being constructed so that it can be spirally wound and cured on the insulated electrical wire.

27. (New) The tape of Claim 26 wherein said inner conductive layer comprises substantially equal parts of metallic powder and PTFE.

28. (New) The tape of Claim 26, wherein said metallic powder is selected from the group consisting of copper, iron, nickel, aluminum, silver, gold and carbon, alone or in combination.

29. (New) A method of manufacturing the tape of Claim 26 wherein said outer insulation layer is coated with said inner conductive layer, and said inner conductive layer is cured thereon.

30. (New) The method of Claim 29 wherein said inner conductive layer is heat-cured on said outer insulation layer.

31. (New) The tape of Claim 26 wherein an outer conductive layer is disposed on the outer surface of said insulation layer and is formed of metallic powder dispersed in a PTFE dispersion or ink solution.

32. (New) The tape of Claim 26 wherein an inner insulation layer formed of PTFE is disposed on the inner surface of said inner conductive layer, said inner and outer insulation layers being offset laterally to expose inner and outer lateral end portions of said inner conductive layer.

33. (New) The tape of Claim 32 wherein an adhesive with slipsheet layer is disposed on the inner surface of said inner insulation layer.

34. (New) The tape of Claim 26 wherein said inner conductive layer is formed of metallic powder disposed in a PTFE dispersion or ink solution.